

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P395210

Luminaire Tested: **4FSN6-SL1-CA125-L8SCT3-3000K-MID**

Issue Date: 5/5/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P395210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-099-13)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 5/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4FSN6-SL1-CA125-L8SCT3-3000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

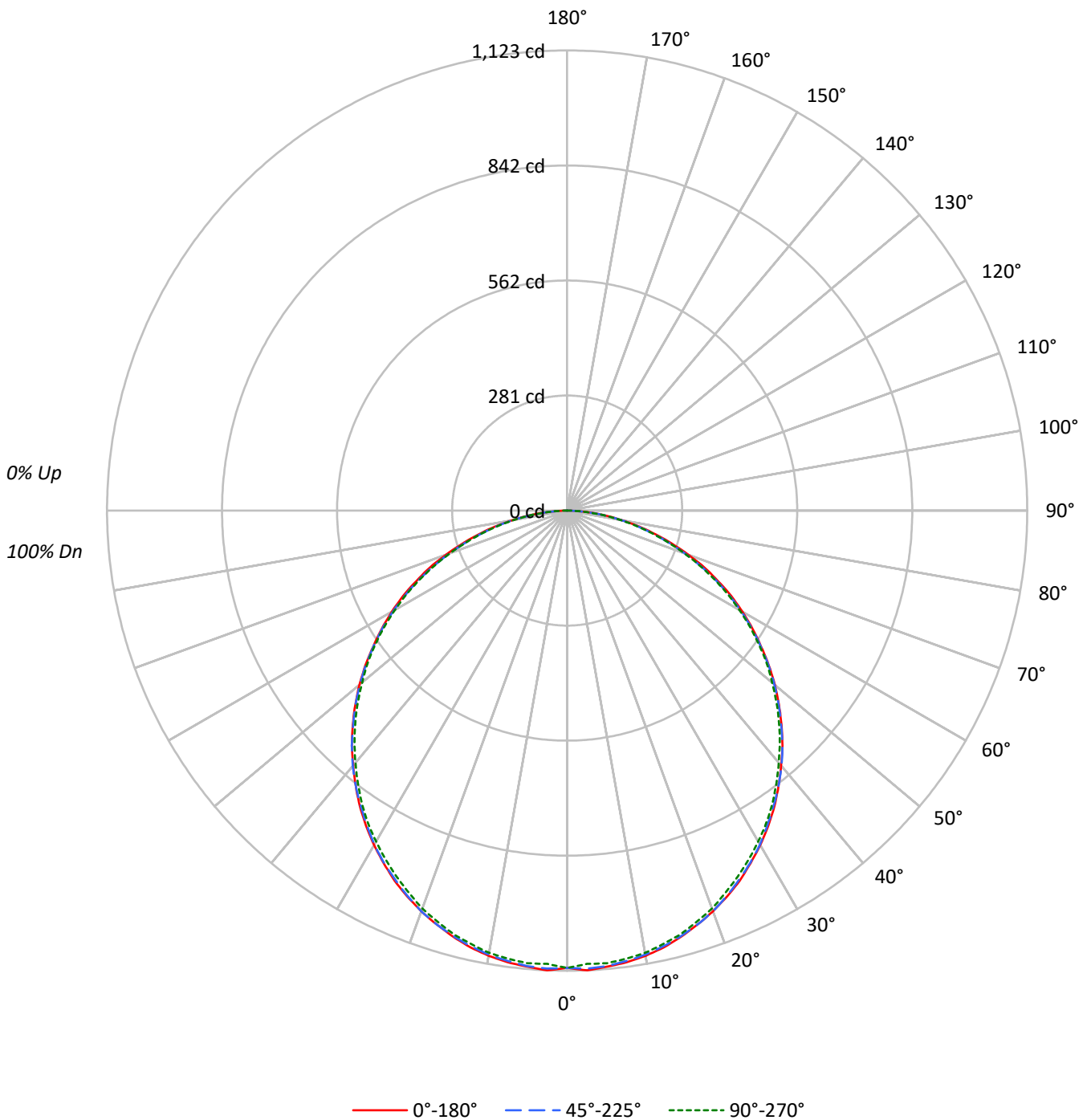
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6006	6006	6006
5°	6036	6029	5990
10°	6028	6013	5990
15°	5996	5988	5965
20°	5960	5960	5920
25°	5919	5902	5851
30°	5858	5850	5797
35°	5793	5774	5736
40°	5706	5715	5646
45°	5630	5619	5565
50°	5539	5528	5468
55°	5422	5408	5369
60°	5318	5272	5226
65°	5170	5080	5044
70°	4938	4803	4781
75°	4635	4487	4458
80°	4224	4138	4048
85°	3680	3507	3421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.3
10°-20°	302.2	9.5
20°-30°	455.9	14.3
30°-40°	547.6	17.2
40°-50°	567.1	17.8
50°-60°	513.8	16.1
60°-70°	394.3	12.4
70°-80°	229.9	7.2
80°-90°	65.5	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	863.8	27.1
0°-40°	1411.3	44.4
0°-60°	2492.2	78.3
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1117	1109	1116	1109	1109	106
15°	1076	1068	1075	1069	1070	304
25°	997	988	994	984	985	459
35°	882	876	879	869	873	551
45°	740	738	738	728	731	571
55°	578	579	576	568	572	517
65°	406	402	399	395	396	402
75°	223	220	216	213	214	236
85°	60	60	57	54	55	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1123.0	1113.1	1118.7	1113.1	1107.4
5°	1117.3	1108.8	1115.9	1108.8	1108.8
7.5°	1111.7	1103.1	1108.8	1101.7	1103.1
10°	1103.1	1094.6	1100.3	1094.6	1096.0
12.5°	1091.8	1081.8	1088.9	1083.3	1083.3
15°	1076.2	1067.6	1074.7	1069.1	1070.5
17.5°	1059.1	1050.6	1059.1	1052.0	1052.0
20°	1040.7	1032.1	1040.7	1032.1	1033.6
22.5°	1019.4	1012.3	1017.9	1008.0	1009.4
25°	996.7	988.1	993.8	983.9	985.3
27.5°	969.7	962.6	968.3	958.3	959.7
30°	942.7	935.6	941.3	929.9	932.8
32.5°	912.9	905.8	910.0	901.5	904.4
35°	881.7	876.0	878.8	868.9	873.1
37.5°	847.6	843.3	847.6	836.2	839.1
40°	812.1	809.2	813.5	802.1	803.6
42.5°	778.0	773.8	778.0	766.7	768.1
45°	739.7	738.3	738.3	728.3	731.2
47.5°	701.3	699.9	699.9	690.0	692.8
50°	661.6	661.6	660.2	650.2	653.1
52.5°	620.4	620.4	619.0	610.5	614.7
55°	577.8	579.3	576.4	567.9	572.2
57.5°	536.7	536.7	533.8	526.7	529.6
60°	494.1	492.6	489.8	482.7	485.5
62.5°	451.5	448.6	444.4	438.7	441.5
65°	406.0	401.8	398.9	394.7	396.1
67.5°	362.0	356.4	352.1	346.4	349.3
70°	313.8	309.5	305.2	301.0	303.8
72.5°	268.3	264.1	259.8	257.0	258.4
75°	222.9	220.1	215.8	213.0	214.4
77.5°	180.3	176.0	174.6	170.4	171.8
80°	136.3	134.9	133.5	129.2	130.6
82.5°	96.5	96.5	93.7	90.9	92.3
85°	59.6	59.6	56.8	53.9	55.4
87.5°	25.6	24.1	24.1	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)